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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/657,497	09/08/2003	Trevor Garner	112025-0534	9344
24267 CESARI AND	90 06/26/2007 CKENNA LLP		EXAMINER	
CESARI AND MCKENNA, LLP 88 BLACK FALCON AVENUE		•	PHAN, MAN U	
BOSTON, MA 02210	ART UNIT		PAPER NUMBER	
			2616	
		•		
			MAIL DATE	DELIVERY MODE
			06/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/657,497	GARNER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Man Phan	2616			
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet	with the correspondence address			
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory in Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THIS COMMUNIFR 1.136(a). In no event, however, may a con. Deriod will apply and will expire SIX (6) MC statute, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	08 September 2003				
· · · ·	•				
3) Since this application is in condition for al closed in accordance with the practice un	lowance except for formal ma	•			
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed. 6) Claim(s) 1-21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and the application is/are pending in the application is/are with a subject to restriction and the application is/are pending in the application is/are with a subject to restriction and application is/are pending in the application is/are with a subject to restriction and application is/are pending in the application is/are with a subject to restriction and	hdrawn from consideration.				
Application Papers					
9)☐ The specification is objected to by the Exa	miner.				
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to	o the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the c	·				
11) The oath or declaration is objected to by the	ne Examiner. Note the attache	ed Office Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for fo a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage			
Attach magnitical		· · · · · · · · · · · · · · · · · · ·			
Attachment(s) 1) Motice of References Cited (PTO-892)	4) 🗆 Interview	Summary (PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-94	8) Paper No	o(s)/Mail Date			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>3/10/04</u> .	5) Notice of 6) Other: _	Informal Patent Application			

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DETAILED ACTION

1. The application of Garner et al. for the "Header range check hash circuit" filed 09/08/2003 has been examined. Claims 1-21 are pending in the application.

The applicant should use this period for response to thoroughly and very closely proof read and review the whole of the application for correct correlation between reference numerals in the textual portion of the Specification and Drawings along with any minor spelling errors, general typographical errors, accuracy, assurance of proper use for Trademarks TM, and other legal symbols @, where required, and clarity of meaning in the Specification, Drawings, and specifically the claims (i.e., provide proper antecedent basis for "the" and "said" within each claim). Minor typographical errors could render a Patent unenforceable and so the applicant is strongly encouraged to aid in this endeavor.

Claim Objections

3. Claims 8, 9, 12 are objected to because of the following informalities: The claim contains the phrase "adapted to" (lines 4, 2, 2 respectively). It has been held that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison, 69 USPQ 138. Appropriate correction is required.

Claim Rejections - 35 USC ' 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

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The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 6 recites limitation "the data flow information..." in line 2,

Claim 19 recites limitation "the data flow information..." in line 2,

There is insufficient antecedent basis for these limitations in the claims.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, specifically, as directed to abstract idea.

Claim 1 constitutes a machine within the meaning of § 101, however, it does not appear that applicant is seeking to patent an arrangement of mechanical elements which form a machine with intended functionality, instead and based on further analysis, it appears that applicant is seeking to patent the functionality of the search engine claimed in combination with the controller and memory of the machine. Thus to be statutory, the claim must be to a practical application and not an abstract idea. The claim recites a "search engine" capable of communicating with the controller and the memory, maintaining or utilizing hash tables for a plurality of "ranges". Since the search engine (functional descriptive material) does not produce a physical transformation, it must produce a useful, concrete and tangible result to establish a practical application. The functionality of the claim as written fails to produce a tangible result,

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and also based on the disclosure the level of one ordinary skill cannot determine whether a useful, concrete and tangible result would take place upon execution of the search engine.

Therefore, the claim is non-statutory and rejected under the doctrine of 35 U. S. C.101 as being non-statutory.

The Supreme Court has repeatedly held that abstractions are not patentable. "An idea of itself is not patentable". Rubber-Tip Pencil Co. V. Howard, 20 Wall. 498, 07. Phenomena of nature, though just discovered, mental processes, abstract intellectual concepts are not patentable, as they are the basic tools of scientific and technological work Gottschalk v. Benson, 175 USPQ 673,675 (S Ct 1972). It is a common place that laws of nature, physical phenomena, and abstract ideas are not patentable subject matter Parker v. Flook, 197 USPQ 193,201 (S Ct 1978). A process that consists solely of the manipulation of an abstract idea is not concrete or tangible. See In re Warmerdam, 33 F.3d 1354, 1360, 31 USPQ2d 1754, 1759 (Fed. Cir. 1994). See also Schrader, 22 F.3d at 295, 30 USPQ2d at 1459. Since Claims 8-11 and 19-22 are directed to abstract idea that do not produce a physical transformation in a practical application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U. S. C. 101. Applicant (s) is/are advised to amend the claims by specifying the claims being directed to a practical application and producing a tangible result.

Any claim not directly rejected on 35 U.S. C. 101 stands rejected due to its dependency.

Claims 1-20 are also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

Claim Rejections - 35 USC § 101

7. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

8. Claim 21 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter, specifically, as directed to "computer program product" or "a software routine". The claimed "computer readable medium" product or "software routine" of claim 21 is non-statutory as at no time in the claim does applicant define the software routine. A computer program per se is not in one of the statutory categories. A computer program must be claimed in combination with an appropriate computer readable medium so that the program is capable of producing a useful, concrete and tangible result when used in a computer system

Claim 21 is direct to "a computer readable media" product which is not supported by either a specific asserted utility or a well established utility. Claim 21 merely defines "a computer readable media product" or "data record for storing instructions", and is not directed to statutory subject matter. The claim appears to be nothing more than a signal not tangibly embodied in a manner so as to be executable and thus non-statutory for failing to be in one of the categories of invention. It's not tangibly embodies and non-functional descriptive material - data per se. Therefore, what applicant is attempting to claim as a computer program product or data record as is known in the art. The claim is actually drawn to non-functional descriptive material stored on a machine readable medium. The description given in the specification does not cure this problem. In practical terms, claims define non-statutory processes if they simply manipulate abstract ideas, e.g., a bid or a bubble hierarchy, without some claimed practical application,

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Schrader, 22 F.3d at 293-94, 30 USPQ2d at 1458-59; Warmerdam, 33 F.3d at 1360, 31 USPQ2d at 1759.

9. Claim 21 is also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The Cao et al. (US#7,072,885) is cited to show the method and apparatus for performing a binary search on an expanded tree.

The Cao et al. (US#6,826,561) is cited to show the method and apparatus for performing a binary search on an expanded tree.

The Dietz et al. (US#6,651,099) is cited to show the method and apparatus for monitoring traffic in a network.

The Sato et al. (US#2006/0059196) is cited to show the bit string check method and device.

The Rosenfeld et al. (US#7,027,446) is cited to show the method and apparatus for set intersection rule matching.

The Lin et al. (US#6,965,945) is cited to show the system and method for slot based arl table learning and concurrent table search using range address insertion blocking.

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The Barach et al. (US#2004/0230696) is cited to show the bounded index extensible

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hash-based IPV6 address lookup method.

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to M. Phan whose telephone number is (571) 272-3149. The

examiner can normally be reached on Mon - Fri from 6:00 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Wellington Chin, can be reached on (571) 272-3134. The fax phone number for the

organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (571) 272-2600.

2. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

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9197.

Mphan

06/20/2007.

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